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<p>Substitute for form 1449A/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p>				Complete If Known	
				Application Number	10/046,858
				Filing Date	1/13/2002
				First Named Inventor	Steven Teig, et al.
				Group Art Unit	2825
				Examiner Name	Garbowski, Leigh M.
Sheet	1	of	1	Attorney Docket Number	SPLX.P0124

FOREIGN PATENT DOCUMENTS							
Examiner* Initials	Cite No. ¹	Foreign Patent Document		Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴ (If known) ⁵				
W	1.	JP	02-262354	10-25-1990	Kuribayashi, Molotaka		

NON PATENT LITERATURE DOCUMENTS				
Examiner* Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ⁶
W	2.	CONG J. et al., DUNE – A Multilayer Gridless Routing System, May 2001, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, vol 20, iss. 5, pp. 633-647.		

Examiner Signature		Date Considered	12/4
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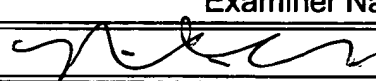
Title of Invention	Method and apparatus for placing circuit modules																																																																																																																																						
<p>Application Number: 10/046858 </p> <p>Confirmation Number: 6767</p> <p>First Named Applicant: Steven Teig</p> <p>Attorney Docket Number: SPLX.P0124</p> <p>Art Unit: 2825</p> <p>Examiner: LEIGH M. GARBOWSKI</p> <p>Search string: (4777606 or 5224057 or 5519836 or 5699265 or 6018623 or 6038385 or 6085032 or 6088519 or 6154874 or 6240541 or 6349403 or 6366279 or 6442745 or 6505331 or 6601227 or 20030014725 or 20040044979).pn.</p> <p>US Patent Documents</p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td><input checked="" type="checkbox"/></td><td>1</td><td>4777606</td><td>1988-10-11</td><td>Fournier</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>2</td><td>5224057</td><td>1993-06-29</td><td>Igarashi et al.</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>3</td><td>5519836</td><td>1996-05-21</td><td>Gawlick et al.</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>4</td><td>5699265</td><td>1997-12-16</td><td>Scepanovic et al.</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>5</td><td>6018623</td><td>2000-01-25</td><td>Chang et al.</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>6</td><td>6038385</td><td>2000-03-14</td><td>Scepanovic et al.</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>7</td><td>6085032</td><td>2000-07-04</td><td>Scepanovic et al.</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>8</td><td>6088519</td><td>2000-07-11</td><td>Koford</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>9</td><td>6154874</td><td>2000-11-28</td><td>Takahashi</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>10</td><td>6240541</td><td>2001-05-29</td><td>Yasuda et al.</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>11</td><td>6349403</td><td>2002-02-19</td><td>Dutta et al.</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>12</td><td>6366279</td><td>2002-04-02</td><td>Gorman et al.</td><td>B1</td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>13</td><td>6442745</td><td>2002-08-27</td><td>Arunachalam et al.</td><td>B1</td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>14</td><td>6505331</td><td>2003-01-07</td><td>Bracha et al.</td><td>B1</td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>15</td><td>6601227</td><td>2003-07-21</td><td>Trimberger</td><td>B1</td><td></td><td></td></tr></tbody></table>								init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass	<input checked="" type="checkbox"/>	1	4777606	1988-10-11	Fournier				<input type="checkbox"/>	2	5224057	1993-06-29	Igarashi et al.				<input type="checkbox"/>	3	5519836	1996-05-21	Gawlick et al.				<input type="checkbox"/>	4	5699265	1997-12-16	Scepanovic et al.				<input type="checkbox"/>	5	6018623	2000-01-25	Chang et al.				<input type="checkbox"/>	6	6038385	2000-03-14	Scepanovic et al.				<input type="checkbox"/>	7	6085032	2000-07-04	Scepanovic et al.				<input type="checkbox"/>	8	6088519	2000-07-11	Koford				<input type="checkbox"/>	9	6154874	2000-11-28	Takahashi				<input type="checkbox"/>	10	6240541	2001-05-29	Yasuda et al.				<input type="checkbox"/>	11	6349403	2002-02-19	Dutta et al.				<input type="checkbox"/>	12	6366279	2002-04-02	Gorman et al.	B1			<input type="checkbox"/>	13	6442745	2002-08-27	Arunachalam et al.	B1			<input type="checkbox"/>	14	6505331	2003-01-07	Bracha et al.	B1			<input type="checkbox"/>	15	6601227	2003-07-21	Trimberger	B1		
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US Published Applications

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init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
W	1	20030014725	2003-01-16	Sato et al.	A1		
W	2	20040044979	2004-03-04	Aji et al.	A1		

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number 10/046,858
				Filing Date 1/13/02
				First Named Inventor Steven Teig, et al.
				Group Art Unit 2825
				Examiner Name GARBOWSKI
Sheet	1	of	7	Attorney Docket Number SPLX.P0124

U.S. PATENT DOCUMENTS						
Examiner* Initials	Cite No. ¹	U.S. Patent Document		Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
W	1.	2001/0009031	A1	07-19-2001	Nitta et al.	
	2.	2002/0182844	A1	12-05-2002	Igarashi et al.	
	3.	2003/0025205	A1	02-06-2003	Shively	
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	5.	4,593,363		06-03-1986	Burstein et al.	
	6.	4,855,929		08-08-1989	Nakajima	
	7.	5,267,176		11-30-1993	Antreich et al.	
	8.	5,375,069		12-20-1994	Satoh et al.	
	9.	5,587,923		12-24-1996	Wang	
	10.	5,618,744		04-08-1997	Suzuki et al.	
	11.	5,633,479		05-27-1997	Hirano	
	12.	5,637,920		06-10-1997	Loo	
	13.	5,640,327		06-17-1997	Ting	
	14.	5,663,891		09-02-1997	Bamji et al.	
	15.	5,757,089		05-26-1998	Ishizuka	
	16.	5,784,289		07-21-1998	Wang	
	17.	5,798,936		08-25-1998	Cheng	
	18.	5,838,583		11-17-1998	Varadarajan et al.	
	19.	5,889,677		03-30-1999	Yasuda et al.	
	20.	5,980,093		11-09-1999	Jones et al.	

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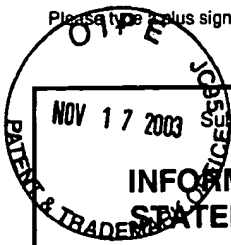
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62	21.	6,070,108		05-30-2000	Andreev et al.	
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	32.	6,407,434	B1	06-18-2002	Rostoker et al.	
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	34.	6,415,422	B1	07-02-2002	Mehrotra et al.	
	35.	6,442,743	B1	08-27-2002	Sarrafzadeh et al.	
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	37.	6,473,891	B1	10-29-2002	Shively	
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	39.	6,490,713	B2	12-03-2002	Matsumoto	
	40.	6,519,751	B2	02-11-2003	Sriram et al.	
	41.	6,543,043	B1	04-01-2003	Wang et al.	
	42.	6,546,540	B1	04-08-2003	Igarashi et al.	
	43.	6,557,145	B2	04-29-2003	Boyle et al.	

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U.S. PATENT DOCUMENTS

44.	6,567,967	B2	05-20-2003	Greidinger et al.
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W	45.	JP	411296560	A	Matsumoto et al.	10-29-1999	with English translation of Abstract;	
	46.	JP	2000-82743	A	Igarashi et al.	03-21-2000	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	47.	JP	H03-173471	A	Tawada et al.	07-26-1991	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	48.	JP	H05-243379	A	Masako Kubota	09-21-1993	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	49.	JP	H05-102305	A	Akihiro Sato	04-23-1993	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓

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Sheet

4

of

7

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Steven Teig, et al.

Group Art Unit

2825

Examiner Name


GARDOUSW

Attorney Docket Number

SPLX.P0124

FOREIGN PATENT DOCUMENTS

50.	JP	H07-86407	A	Shinpei Miura	03-31-1995	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
51.	JP	H09-162279	A	Masaaki Yoshida	06-20-1997	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓

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				Examiner Name	GARBOUSU
Sheet	5	of	7	Attorney Docket Number	SPLX.P0124

FOREIGN PATENT DOCUMENTS				
NON PATENT LITERATURE DOCUMENTS				
Examiner* Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T 6
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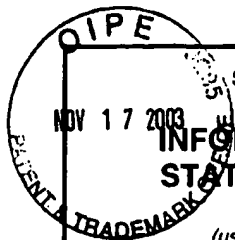
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Filing Date	1/13/02
				First Named Inv nt r	Steven Teig, et al.
				Group Art Unit	2825
				Examiner Name	GARBOWSKI
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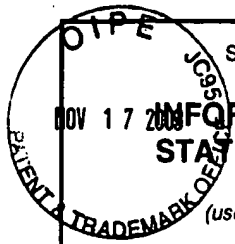
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				Group Art Unit	2825
				Examiner Name	GAR BOWSW
Sheet	7	of	7	Attorney Docket Number	SPLX.P0124

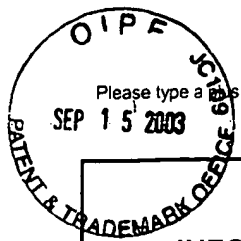
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				First Named Inventor	Steven Teig
				Group Art Unit	2825
				Examiner Name	GARBOWSKI
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RELATED U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No. ¹	U.S. Patent Document		Date of filing MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Related Application Data
		Number				
W	1.	2002/0133798		12-06-2000	Steven Teig et al.	Present application is a CIP of 2002/0133798.
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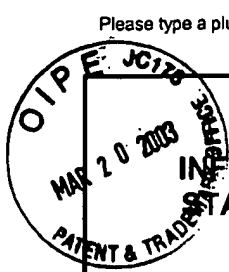
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


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				Examiner Name	GARPANW
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U.S. PATENTS RELATED TO THE PRESENT APPLICATIONS

Examiner Initials	Cite No. ¹	U.S. Patent Document Number Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Relation to Present Application
MS	1.	6,516,455 B1	Teig, et al.	02-04-03	CIP of parent application

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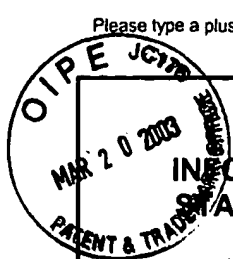
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Sheet	3	of	3	Attorney Docket Number	SPLX.P0124

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